

ABSTRACT

A method and an apparatus for exact metering and volumetric filling of dry powder medicament doses into preformed containers, which are adapted for administration by a dry powder inhaler. The filling apparatus includes at least a bulk powder source, a feeding chamber, and a receptacle providing the volume for a specified load mass of dry powder. The bulk powder source releases a portion of powder discontinuously to the feeding chamber, but is disconnected from the feeding chamber and receptacle during the filling operation. The filling apparatus further presents a plane surface in contact with the movable feeding chamber and provides a hard-wearing, low friction coating for reducing dynamic friction and powder retention.